

WHAT IS CLAIMED IS:

1. A method for manufacturing Ni-Al alloy powders for fuel cells using aluminum chloride, the method comprising the steps of:
  - 5       (a)     mixing Al powders with Ni powders; and
  - (b)     supplying gas containing catalytic  $\text{AlCl}_3$  to the mixed powders of the step (a) at a temperature of below fusion points of Ni and Al to chemically react Ni and Al with each other, thus forming Ni-Al alloy powders.
- 10       2. A method for manufacturing Ni-Al alloy powders for fuel cells using aluminum chloride as claimed in claim 1, wherein the gas containing catalytic  $\text{AlCl}_3$  is any one of He, Ar,  $\text{H}_2$  and  $\text{N}_2$ .
- 15       3. A Ni-Al alloy powder for fuel cells, manufactured by the method according to claim 1.
4. A Ni-Al alloy powder for fuel cells, manufactured by the method according to claim 2.